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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-06-15-01** **Date: 17-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-17
Sample ID No	:	2017-06-15-01/01
Type of Mix	:	BM (Bituminous Mecadam)
Date of test	:	16-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.2	302.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.1	68.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.6	234
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.3
5	Aggregate impact value	(B/A)*100	23.2	22.5
6	Aggregate impact value (Mean of two tests)		22.9	

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Prepared By:
Harshitha

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-15-01** **Date: 16-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-17
Sample ID No	:	2017-06-15-01/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	15-06-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-6
Flakiness Index	11.7%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	10.4%	
Combined Flakiness and Elongation Index for BC	22.1%	

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TEST REPORT ON BITUMEN

Lab ID	:	CP-2017-06-12-02 **Date: 13-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	13-06-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	67	60 to 70
2	Softening Point,°C	48.6	Min. 40°C
3	Ductility, cm	89	Min. 75cm
4	Flash point, °C	234	Min. 220°C
	Fire point, °C	242	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2017-06-07-01 **Date: 10-06-17**

Customer : Assistant Executive Engineer, Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04

Agency : Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/45/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-06-17

Sample ID No : 2017-06-07-01-02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 07/06/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.50	100.45	1.116	4476	81.9	18.3	17.0	21.3
2	Cover Slab-2	75.47	100.50	1.122	4473	81.3	18.2	16.9	21.1
3	Cover Slab-3	75.52	100.48	1.118	4478	80.5	18.0	16.7	20.9

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-06-08-01** **Date: 12-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-17
Sample ID No	:	2017-06-08-01-01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/06/2017	12/06/2017	150.13 X 150.23 X 150.16	22554	8.315	415.0	18.4	18.1
2	Drain Concrete	M20	05/06/2017	12/06/2017	150.19 X 150.15 X 150.10	22551	8.287	408.2	18.1	
3	Drain Concrete	M20	05/06/2017	12/06/2017	150.24 X 150.29 X 150.21	22580	8.344	404.2	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-06-08-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-17
Sample ID No	:	2017-06-08-01-02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 03-07-17

Date of test : 03/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/06/2017	03/07/2017	150.25 X 150.23 X 150.29	22572	8.378	503.4	22.3	22.2
2	Drain Concrete	M20	05/06/2017	03/07/2017	150.19 X 150.18 X 150.14	22556	8.302	507.5	22.5	
3	Drain Concrete	M20	05/06/2017	03/07/2017	150.24 X 150.23 X 150.21	22571	8.323	494.3	21.9	

Note:
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-06-08-01** **Date: 13-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-17
Sample ID No	:	2017-06-08-01-03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	06/06/2017	13/06/2017	150.19 X 150.23 X 150.16	22563	8.248	394.9	17.5	17.5
2	Drain Concrete	M20	06/06/2017	13/06/2017	150.22 X 150.15 X 150.10	22556	8.243	401.5	17.8	
3	Drain Concrete	M20	06/06/2017	13/06/2017	150.24 X 150.21 X 150.25	22568	8.300	390.4	17.3	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-06-08-01

Date: 04-07-17

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04

Agency : Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/45/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-06-17

Sample ID No : 2017-06-08-01-04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	06/06/2017	04/07/2017	150.15 X 150.18 X 150.11	22550	8.254	484.8	21.5	21.9
2	Drain Concrete	M20	06/06/2017	04/07/2017	150.19 X 150.18 X 150.14	22556	8.278	494.0	21.9	
3	Drain Concrete	M20	06/06/2017	04/07/2017	150.13 X 150.15 X 150.11	22542	8.213	504.9	22.4	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-01-01** **Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-06-17
Sample ID No	:	2017-06-01-01-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	02-06-17

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	672	21.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	563	690	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.889	580	695	18.0%	Satisfactory	Satisfactory

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TEST RESULTS OF GRADATION FOR BM
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-26-01** **Date: 27-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-01/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	26-06-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	510	507
2	Weight of the sample After extraction	B	487	481
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.51	5.13
4	Average percentage	%	4.82	

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Lab ID : CP-RW-2017-06-26-01 **Date: 27-06-17**

Sample ID No : 2017-06-26-01/01

AFTER EXTRACTION(Trail-1)

Oven Dry Weight(gm) : 487

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	16	16	3.3	96.7	90-100
13.2	68	84	17.2	82.8	56-88
4.75	245	329	67.6	32.4	16-36
2.36	86	415	85.2	14.8	4-19
0.3	43	458	94.0	6.0	2-10
0.075	18	476	97.7	2.3	0-8
PAN	11	487	100	0.0	0

AFTER EXTRACTION(Trail-2)

Oven Dry Weight(gm) : 487

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	16	16	3.3	96.7	90-100
13.2	68	84	17.2	82.8	56-88
4.75	245	329	67.6	32.4	16-36
2.36	86	415	85.2	14.8	4-19
0.3	43	458	94.0	6.0	2-10
0.075	18	476	97.7	2.3	0-8
PAN	11	487	100	0.0	0

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-06-28-01** **Date: 29-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	28-06-17
Sample ID No	:	2017-06-28-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	28-06-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	468
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.40
4	Average percentage	%	6.3	

AE W4

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Lab ID : CP-RW-2017-06-28-01
Sample ID : 2017-06-28-01/01
Date: 29-06-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	1	1	0.2	99.8	90-100
9.5	78	79	16.8	83.2	70-88
4.75	99	178	38.0	62.0	53-71
2.36	78	256	54.6	45.4	42-58
1.18	42	298	63.5	36.5	34-48
0.6	18	316	67.4	32.6	26-38
0.3	29	345	73.6	26.4	18-28
0.15	45	390	83.2	16.8	12-20
0.075	48	438	93.4	6.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	81	83	17.7	82.3	70-88
4.75	101	184	39.3	60.7	53-71
2.36	75	259	55.3	44.7	42-58
1.18	42	301	64.3	35.7	34-48
0.6	21	322	68.8	31.2	26-38
0.3	25	347	74.1	25.9	18-28
0.15	48	395	84.4	15.6	12-20
0.075	52	447	95.5	4.5	4-10

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W4

Prepared By:
Harshitha

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-29-03 **Date: 31-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-05-29-03/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	30-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)		–
2	Finess by Air permeablity method (m^2/kg, Min)		225m^2/kg, Min
3	Density (gm/cc)		–
4	Standard Consistency (%)		Not specified
5	Initial Setting time	125 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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AE W4

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-29-03
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-05-29-03/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-05-17

Date: 27-06-2017

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
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